

## Winches for Forklift

Forklift Winch - Winches are mechanical devices which are able to pull up or wind out the tension of a cable, wire rope, rope or a wire cable. These tools, in its most simple form, are constructed of a hand crank and a spool. More complex winches are found at the heart of machinery like elevators, steam shovels and tow trucks. Every so often the spool could be referred to as the winch drum. Complex designs have gear assemblies which can be powered by pneumatic, internal, hydraulic or electric combustion drives. Various winches could include a mechanical brake or a solenoid brake or a pawl and ratchet device to be able to prevent it from unwinding unless the pawl is retracted.

Generally, the rope is stored on the winch. There is similar machinery referred to as a capstan which does not store the rope. In sailing, when trimming a line on a sailboat, the crew member operates the winch handle with one hand while tailing the other in order to maintain tension on the turns. Some winches have a cleat or stripper in order to maintain tension. These designs are called "self-tailing" winches.

Quite often, a winch is used in large theatrical shows as a part of the mechanism to move setting. Every now and then there are even winches really imbedded in the stage so as to help transfer the various bigger set pieces on and off the stage.

The new generation of winches have been created for snow and water sports allowing the riders to be pulled quickly across a body of water or of snow. This can stimulate a riding experience which is usually supplied by a snow mobile, wave runner or a boat.